## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference  Co 10310		FOR FURTHER A	CTION	See Form PCT/IPEA/416				
		International filing da	ate (day/month/year)	Priority date (day/month/year)				
PCT/EP2004/007173 01.07.200			10.07.2003					
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International Patent Classification (IPC) or national classification and IPC  C08G77/395, C07F9/40								
C00G777333, C0723740								
Applicant								
CONSORTIUM FÜR ELEKTROCHEMISCHE INDUSTRIE GMBH								
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. This R	EPORT consists of	fatotal of 5	sheets, including	g this cover sheet.				
		panied by ANNEXES, comprising						
. г	) (cant to the or	oplicant and to the International Bi	uragu) a total of	sheets, as follows:				
a. ∟	-	-						
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental								
Вох.								
ъ	(sent to the In	t <i>ernational Bureau only)</i> a total of	(indicate type and number	r of electronic carrier(s))				
, containing a sequence listing and/or tables								
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This re	eport contains indic	cations relating to the following iter	ms:					
$\boxtimes$	Box No. I	Basis of the report						
	Box No. II	Priority						
	Box No. III	Non-establishment of opinion with	h regard to novelty, inventive step and industrial applicability					
	Box No. IV	Lack of unity of invention		-				
$\boxtimes$	Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI	Certain documents cited	··· · · · · · · · · · · · · · · · · ·					
	Box No. VII	Certain defects in the international	l application					
Box No. VIII Certain observations on the international application								
Date of submission of the demand			Date of completion of th	is report				
Name and mailing address of the IPEA/EP			Authorized officer					
Faccionile No.			Telephone No.					

Translation

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/007173

Box	No. I	Basis of the report		
1.		n regard to the language, this report is based on the internat cated under this item.	ional application in the language in which i	t was filed, unless otherwise
		This report is based on translations from the original lang which is the language of a translation furnished for the purinternational search (Rule 12.3 and 23.1(b))		, ·
		publication of the international application (Rule 12	.4)	
		international preliminary examination (Rule 55.2 an	·	
2.	recei	h regard to the elements of the international application, the iving Office in response to an invitation under Article 14 (report):  the international application as originally filed/furnished the description:		
		pages 1-13		as originally filed/furnished
			received by this Authority on	
			received by this Authority on	
	$\boxtimes$	the claims:		
		nos. 1-10		_ as originally filed/furnished
1		nos.*		any statement) under Article 19
		nos.*		
		nos.*	received by this Authority on	
	Ш	the drawings:		
		sheets		as originally filed/furnished
		sheets*	received by this Authority on	
		sheets*	received by this Authority on	
		a sequence listing and/or any related table(s) - see Supple	mental Box Relating to Sequence Listing.	
3.		The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		any table(s) related to sequence listing (specify):		
4.		This report has been established as if (some of) the ame they have been considered to go beyond the disclosure as		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
	If ite	em 4 applies, some or all of those sheets may be marked "si	uperseded."	

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No. V Reasoned statement under citations and explanations			Article 35(2) with regard to novelty, inventive step or industrial applicability; supporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-10	YES
		Claims		NO
	Inventive step (IS)	Claims	_1-10	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-10	YES
		Claims		NO

- 2. Citations and explanations (Rule 70.7)
  - D1 US 2843615 A of 15.07.1958
  - 1. The present application concerns a method of preparing phosphonic ester-modified organosiloxanes with phosphonomethylsilyl groups see formula (I) of the current main claim by aqueous hydrolysis of phosphonmethylsilanes of formula (III), either alone or in the presence of silanes of formula (II) see claims 1-9, and the use of silanes as antistatic additive see claim 10.
  - 2. The subjects of claims 1-10 are novel within the meaning of PCT Article 33(2). None of the search report citations pertains to a method of preparing phosphonic ester-modified organosiloxanes with phosphonomethylsilyl groups see formula (I) of the current main claim by aqueous hydrolysis of phosphonmethylsilanes of formula (III), either alone or in the presence of silanes of formula (II) see claims 1-9, and the use of silanes as antistatic additive see claim 10.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

D1, see example 14, pertains to a method of preparing phosphonic ester-modified organosiloxanes with phosphonomethylsilyl groups by aqueous hydrolysis of phosphonomethylsilanes in the presence of dimethyl diethoxysilane, i.e. a silane of formula (II).

The method disclosed in the present application differs from D1 by the use of a phosphonomethylsilane as starting material instead of phosphonoethylsilane.

3. The subjects of claims 1-10 are also inventive within the meaning of PCT Article 33(3).

The application addresses the problem of providing a further method of preparing phosphonic ester-modified organosiloxanes wherein the phosphonic ester-modified organosiloxanes have phosphonomethylsilyl groups.

A person skilled in the art is familiar with the method, disclosed in D1, example 14, of preparing phosphonic ester-modified organosiloxanes with phosphonoethylsilyl groups by means of hydrolysis of phosphonoethylsilanes in the presence of dimethyl diethoxysilane.

However, a person skilled in the art would not draw on D1 and the method disclosed there for solving the above problem because on page 1 of D1, end of column 1 to column 2, it is indicated that

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

phosphonic acid ester-modified organosiloxanes with phosphonomethylsilyl groups are unstable in the presence of strong alkalis and acids because the methylene bridge is cleaved.

Thus, none of the search report citations suggest the solution found in the present application of providing such phosphonic ester-modified organosiloxanes with phosphonomethylsilyl groups by a method of aqueous hydrolysis of phosphonomethylsilanes of formula (III) either alone or in the presence of silanes of formula (II) as defined in claims 1-9, or the use of the phosphonic ester-modified organosiloxanes as antistatic additive as defined in claim 10.

The subjects of claims 1-10 of the present application are therefore inventive.

4. The subjects of claims 1-10 have industrial applicability within the meaning of PCT Article 33(4).